

Main

Range of product	TeSys B
Product or component type	Contactor
Device short name	LC1BR
Contactor application	Motor-heating-lighting
Utilisation category	AC-1 AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[In] rated current	2750 A ($\leq 40^\circ\text{C}$) AC network AC-1 for power circuit 1800 A ($\leq 55^\circ\text{C}$) AC network AC-3 for power circuit
Motor power kW	900 kW at 660...690 V AC 50/60 Hz 900 kW at 500 V AC 50/60 Hz 900 kW at 440 V AC 50/60 Hz 900 kW at 415 V AC 50/60 Hz 900 kW at 380...400 V AC 50/60 Hz 750 kW at 1000 V AC 50/60 Hz 500 kW at 220...230 V AC 50/60 Hz
Auxiliary contact composition	2 NO + 2 NC
[Uc] control circuit voltage	220 V AC 50...400 Hz

Complementary

Control circuit voltage limits	0.85...1.1 U _{cn} operational 50...400 Hz 0.4...0.5 U _c drop-out 50...400 Hz
[Ui] rated insulation voltage	1500 V - for power circuit - conforming to VDE 0110 group C 1000 V - for power circuit - conforming to IEC 60947-4 1000 V - for power circuit - conforming to IEC 60158-1
Mounting mode	Fixed
Mounting support	Bar support bracket Notched mounting rails
Connections - terminals	Power circuit: bars 4
Tightening torque	Power circuit: 35 N.m - on bars
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz for power circuit
[I _{th}] conventional free air thermal current	2750 A at $\leq 40^\circ\text{C}$ for power circuit
I _{rms} rated making capacity	18000 A at 1000 V AC for power circuit conforming to IEC 60947-4 18000 A at 1000 V AC for power circuit conforming to IEC 60158-1
Rated breaking capacity	6000 A at 1000 V for power circuit conforming to IEC 60947-4 6000 A at 1000 V for power circuit conforming to IEC 60158-1 18000 A at 440 V for power circuit conforming to IEC 60947-4 18000 A at 440 V for power circuit conforming to IEC 60158-1 15000 A at 500 V for power circuit conforming to IEC 60947-4 15000 A at 500 V for power circuit conforming to IEC 60158-1 11000 A at 660...690 V for power circuit conforming to IEC 60947-4 11000 A at 660...690 V for power circuit conforming to IEC 60158-1
Associated fuse rating	2400 A gI at ≤ 440 V for power circuit 2000 A aM at ≤ 440 V for power circuit
Average impedance	0.09 mOhm at 50 Hz - I _{th} 2750 A for power circuit
Power dissipation per pole	680 W AC-1 - I _{th} 2750 A 360 W AC-3 - I _{th} 2750 A

Inrush power in VA	1300 VA
Hold-in power consumption in VA	31 VA 50/60 Hz
Operating time	50...100 ms opening 100...150 ms closing
Mechanical durability	1200000 cycles
Operating rate	120 cyc/h at ≤ 55 °C
Height	495 mm
Width	915 mm
Depth	475 mm
Product weight	129 kg

Environment

Standards	BS 5424 IEC 60158-1 IEC 60947-4 NF C 63-110 VDE 0660
Product certifications	BV CSA RINA
Protective treatment	TH TC
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating in temperature

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Will not be Compliant
REACH	Reference not containing SVHC above the threshold

Contractual warranty

Period	18 months
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